

**What is claimed is:**

1. A production process for a catalyst, wherein the catalyst includes a particulate lump carrier and a catalytic component supported thereon;

5 with the production process comprising the step of carrying out simultaneous revolution and rocking of a treatment container as charged with the carrier and a catalyst precursor including the catalytic component, thereby supporting the catalytic component onto the carrier.

10 2. A production process according to claim 1, wherein the catalyst precursor is in the form of any one member selected from the group consisting of a powder including the catalytic component, a solution including the catalytic component, and a suspension including the catalytic component.

15 3. A production process according to claim 1, wherein:  
the treatment container is the shape of a cylinder having a length of 1 to 3 times of its diameter and has a horizontally oriented central axis;

the carrier is charged in an amount of 10 to 60 % of the capacity of the treatment container;

20 the revolution is to revolve the treatment container at 5 to 60 rpm around the central axis; and

the rocking is to rock the central axis at 1 to 12 spm in an upward and downward rocking angle of 5 to 90°.